

McIntosh

MC 3500



SERVICE INFORMATION

STARTING WITH SERIAL NO. 10N01

McINTOSH LABORATORY INC. 2 CHAMBERS STREET BINGHAMTON, NEW YORK

MC 3500

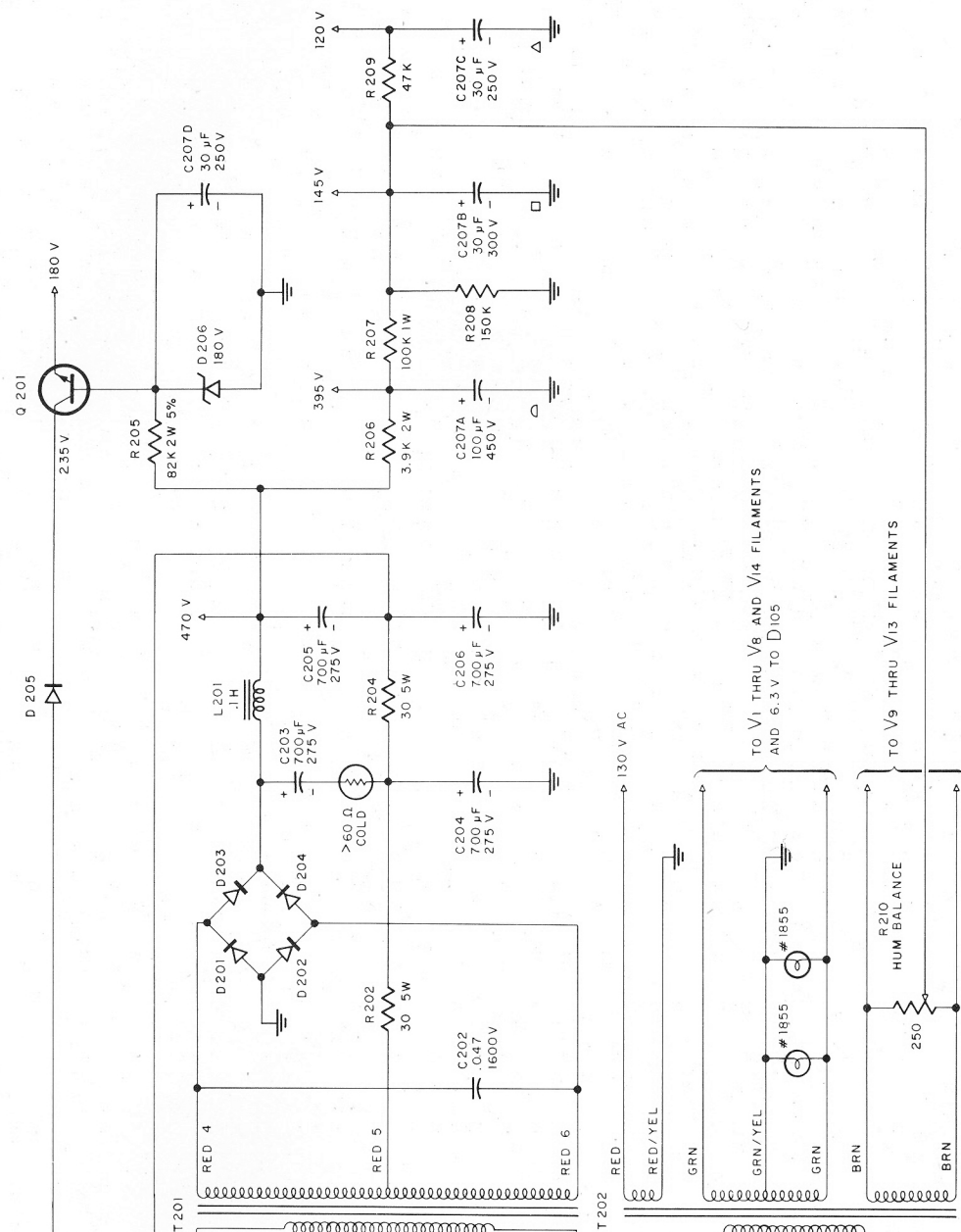
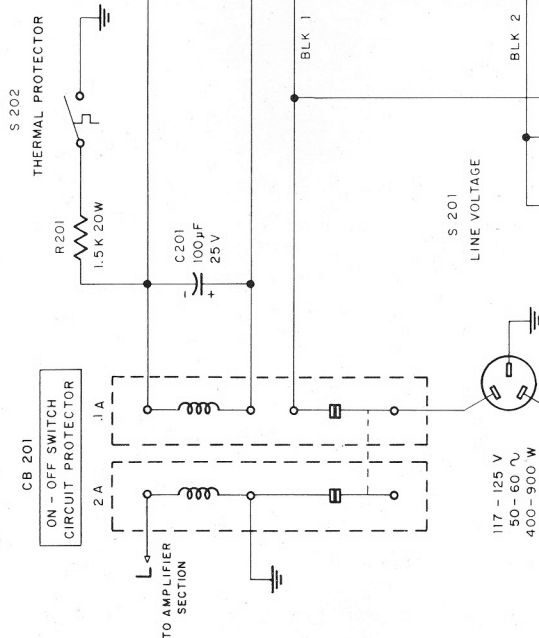
ELECTRICAL SPECIFICATIONS

POWER OUTPUT	350 watts continuous
FREQUENCY RESPONSE	20Hz to 20kHz +0, -0.5dB at 350 watts output. 1Hz to 70kHz +0, -3dB at 1 watt output.
HARMONIC DISTORTION	Less than 0.15% at rated output or less, 20Hz to 20kHz.
INTERMODULATION DISTORTION	Less than 0.15%
NOISE AND HUM LEVEL	-95dB.
INPUT LEVEL	1.1 volt.
OUTPUT IMPEDANCE	1, 4, 8, 16, 50, and 64 ohms.
OUTPUT VOLTAGES	17.3, 35.8, 53, 75, 132, 150 volts.
AC POWER INPUT	117/125 volts, 50/60Hz, 400-900 watts.

SCHEMATIC NOTES

1. Unless otherwise specified, resistance values are in ohms, 1/2 watts, and 10% tolerance. Capacitance values smaller than 1 are in microfarads (μF); values greater than 1 are in picofarads (pF). Inductors, unless otherwise specified, are in microhenries (μH).
2. The terminal numbering of rotary switches and printed circuit board wires is for reference only.
3. All voltages are measured under the following conditions:
 - A. Use of an 11 megohm input impedance VTVM voltmeter.
 - B. All voltages $\pm 10\%$ with respect to chassis ground.
 - C. No signal at input terminals.
 - D. AC input at 117 volts, 50/60 cycles.
 - E. Front panel controls at:

gain	fully counterclockwise
meter range	off
power	on
output range	fully counterclockwise
4. In units with serial numbers below 10N18, L1 thru L8 are not used.

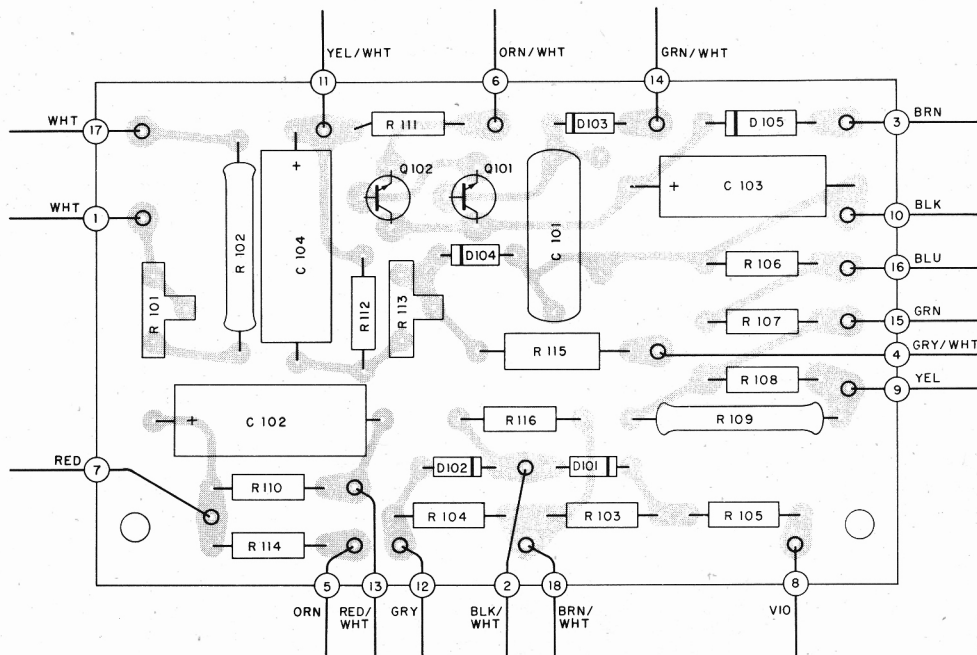


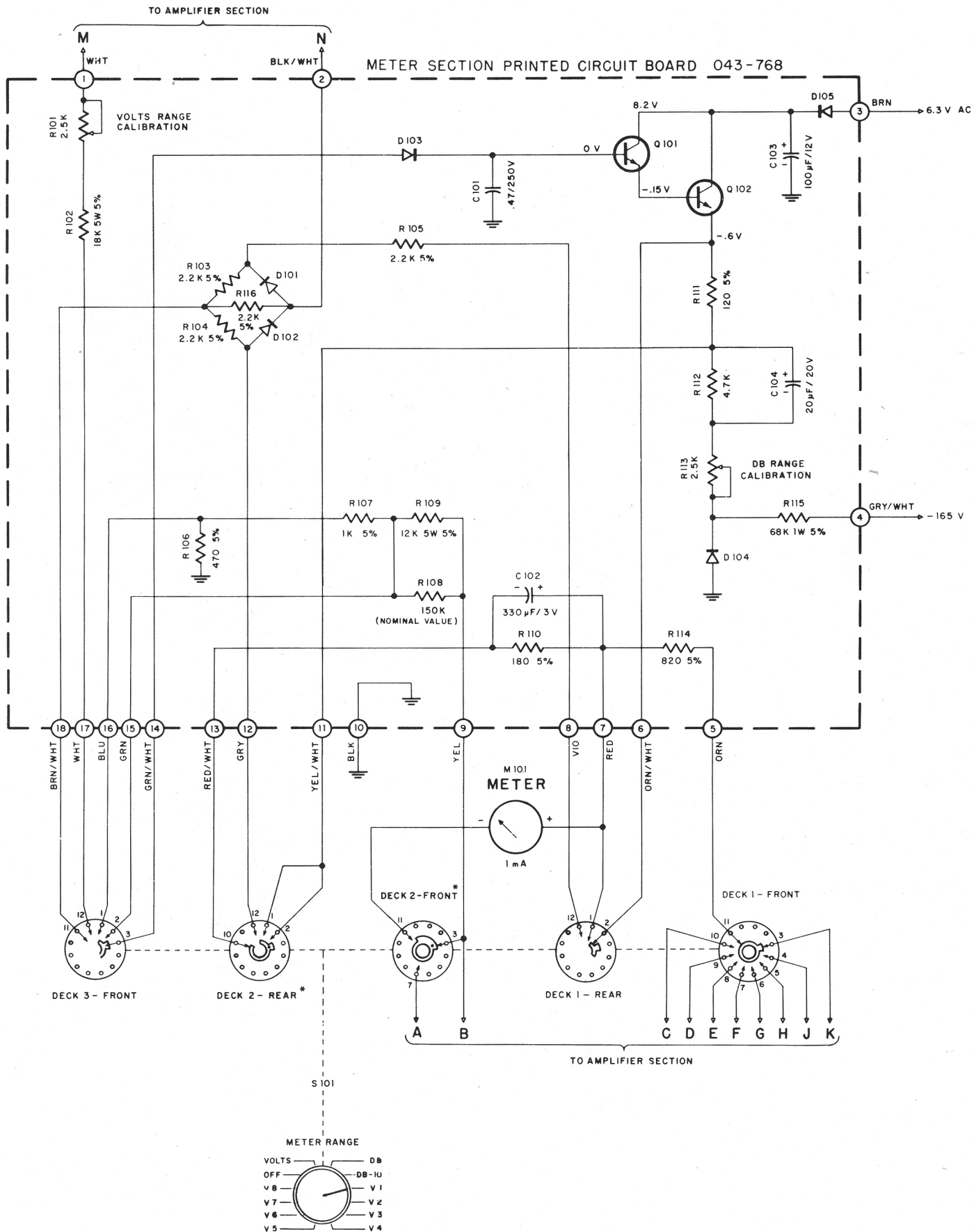
POWER SUPPLY SECTION

MC 3500

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METER SECTION PRINTED CIRCUIT BOARD 043-768



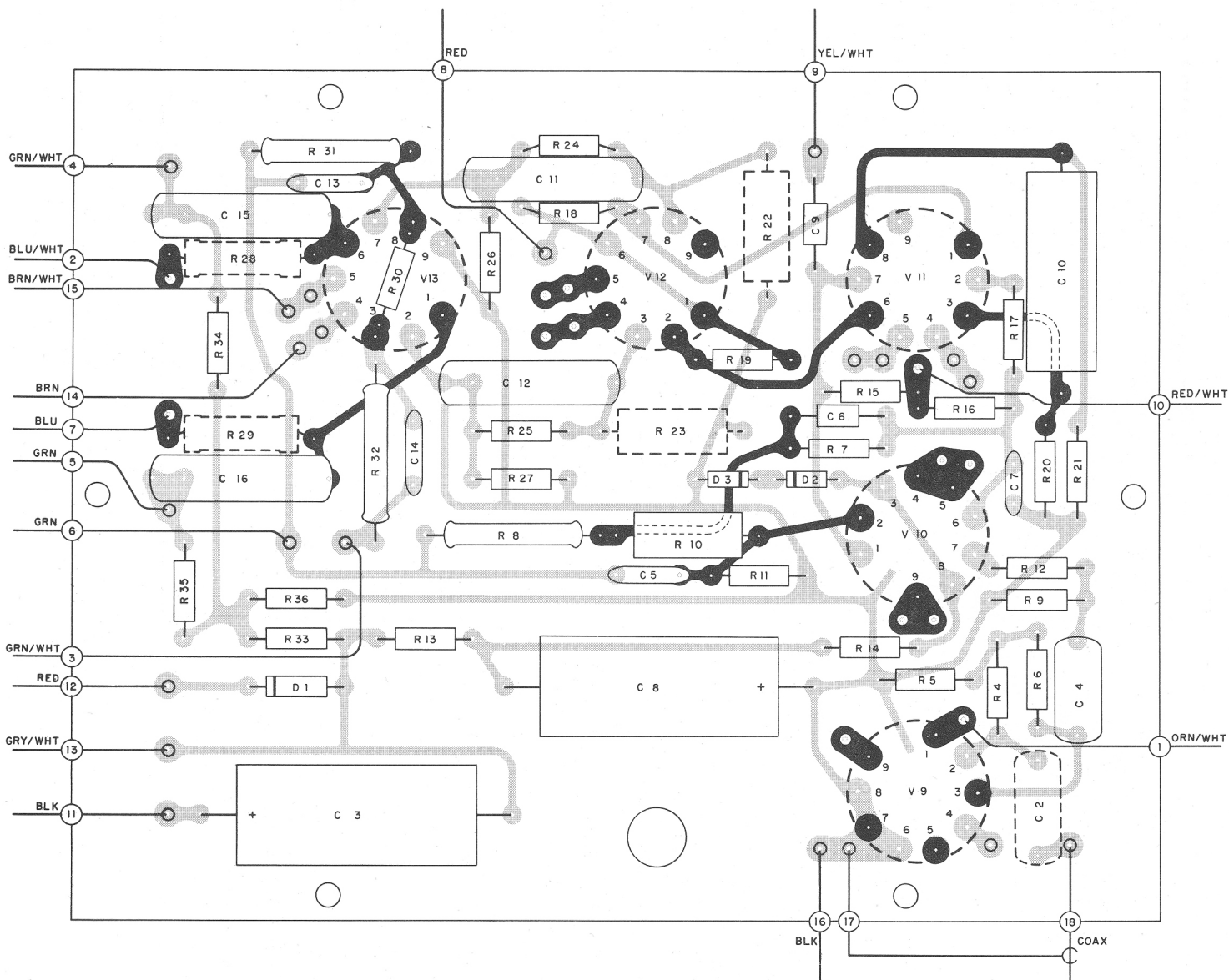


* - ROTORS ARE INTERCONNECTED

METER SECTION

MC 3500

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AMPLIFIER SECTION PRINTED CIRCUIT BOARD 043-767



REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory Inc.
Customer Service Department
2 Chambers Street
Binghamton, New York 13903
(telephone 607-723-3512)

CAPACITORS

Symbol Number	Description	Part Number
C1	Mylar .1μF 250V 10%	064-038
C2	Mylar .22μF 250V	064-043
C3	Elect. 12μF 250V	066-046
C4	Mylar .22μF 250V	064-043
C8	Elect. 12μF 250V	066-046
C10	Elect. 100μF 25V NP	066-115
C11,12	Mylar .47μF 400V	064-051
C15,16	Mylar .22μF 630V	064-052
C17,18	Elect. 50μF 50V	066-014
C19,20	Elect. 12μF 250V	066-046
C21,22	Elect. 8μF 600V	066-118
C101	Mylar .47μF 250V	064-045
C102	Elect. 330μF 3V	066-105
C103	Elect. 100μF 12V	066-018
C104	Elect. 20μF 20V	066-121
C201	Elect. 100μF 25V	066-124
C203	Elect. 700μF 275V	066-117
C204	Elect. 700μF 275V	066-117
C205	Elect. 700μF 275V	066-117
C206	Elect. 700μF 275V	066-117
C207	Elect. 100/30/30/30μF 450/300/250/250V	066-116

DIODES

D1	Si. rectifier	070-031
D2	Zener diode 10V	070-024
D3	Si. signal diode	070-022
D101	Ge. signal diode	070-003
D102	Ge. signal diode	070-003
D103	Ge. signal diode	070-003
D104	Si. signal diode	070-022
D105	Si. rectifier	070-030
D201	Si. rectifier	070-036

D202	Si. rectifier	070-036
D203	Si. rectifier	070-036
D204	Si. rectifier	070-036
D205	Si. rectifier	070-031
C206	Zener diode 180V	070-037

CIRCUIT BREAKERS

CB201	Power on-off	088-004
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FUSES

F201	Fuse 10 ampere Slo-Blo	089-018
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CHOKES

L1,2	Choke 1.2μH	122-011
L3,4	Choke 1.2μH	122-011
L5,6	Choke 1.2μH	122-011
L7,8	Choke 1.2μH	122-011
L201	Filter choke	122-061

METERS

M101	Meter	124-014
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TRANSISTORS

Q101	Si. NPN transistor	132-501
Q102	Si. NPN transistor	132-501
Q201	Si. NPN transistor	132-033

POTENTIOMETERS

R3	Gain control	134-192
R37,38	Bias adjust	134-176
R45,46	Bias adjust	134-176
R53,54	Bias adjust	134-176
R61,62	Bias adjust	134-176
R101	Volt. range calibration	134-197
R113	DB range calibration	134-197
R210	Hum balance	134-086

RESISTORS

R8	Wirewound 10K	5%	5W	139-051
R15,16	Composition 100K	1%	1/2W	136-468
R28,29	Composition 39K	5%	2W	136-467
R31,32	Wirewound 10K	1%	5W	139-052
R39,40	Wirewound 200Ω	10%	2W	139-069
R43,44	Wirewound 5Ω	5%	5W	139-068
R47,48	Wirewound 200Ω	10%	2W	139-069
R51,52	Wirewound 5Ω	5%	5W	139-068
R55,56	Wirewound 200Ω	10%	2W	139-069
R59,60	Wirewound 5Ω	5%	5W	139-068

R63,64	Wirewound 200Ω	10%	2W	139-069
R67,68	Wirewound 12K	10%	5W	139-053
R69,70	Wirewound 5Ω	5%	5W	139-068
R102	Wirewound 18K	5%	5W	139-062
R109	Wirewound 12K	5%	5W	139-063
R201	Wirewound 1.5K	10%	20W	139-064
R202	Wirewound 30Ω	10%	5W	139-067
R203	Thermistor			144-006
R204	Wirewound 30Ω	10%	5W	139-067

SWITCHES

S1	Sub-sonic filter switch	148-002
S2	Output impedance switch	146-113
S101	Meter range switch	146-112
S201	Line voltage switch	149-006
S202	Thermal cut-out	153-010

TRANSFORMERS

T2	Output transformer	043-766
T201	Power trans. (high voltage)	043-765
T202	Power trans. (low voltage)	043-764

TUBES

V1,5	6LQ6/6JE6B	165-059
V2,6	6LQ6/6JE6B	165-059
V3,7	6LQ6/6JE6B	165-059
V4,8	6LQ6/6JE6B	165-059
V9	12AX7/ECC83	165-019
V10	12AX7/ECC83	165-019
V11	6DJ8/ECC88	165-056
V12	6CG7/6FQ7	165-057
V13	6DJ8/ECC88	165-056
V14	6BL7GTA	165-058

FRONT PANEL & TRIM

Front panel	002-026
Side frame (right)	043-830
Side frame (left)	043-831
Front panel handles	020-025
Gain knob	090-076
Meter range knob	090-076
Output range knob	090-076
Meter bezel	020-022

LAMPS

#1855 (METER)	058-030
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MISCELLANEOUS ITEMS

Shipping crate	043-832
Owners manual	038-222
Line cord	170-038
Fuseholder	178-001
Hardware package	043-799
Cooling fan	098-135
Cooling fan guard	098-136

10C1017S6-M291MN